

ASSOCIATES



September 29, 2006

GA Project No. 310-01-01

City and County of San Francisco Department of Public Health Local Oversight Program 1390 Market Street, Suite 210 San Francisco, CA 94102

Attention:

Stephanie Cushing

Subject:

Results of Groundwater Investigation

Former Ricci & Kruse Lumber Co.

1295 Yosemite Street, San Francisco, California

SF LOP Site Code 11741

Ladies and Gentlemen:

Gribi Associates is pleased to provide this letter report documenting the results of a groundwater investigation at the former Ricci & Kruse Lumber Company site at 1295 Yosemite Street in San Francisco, California (see Figure 1 and Figure 2). In accordance with the work plan approved by City and County of San Francisco Department of Public Health (SFDPH), eight soil borings were drilled and groundwater samples collected on September 5, 2006. The goal of the investigation was to provide additional assessment of soil and groundwater impacts in an expected downgradient (east) groundwater flow direction from the former USTs. Note that, although the approved workplan proposed collection of both soil and grab groundwater samples, we were notified in the field by Ms. Stephani Cushing of SFDPH that collection of soil samples would not be required, since groundwater was so shallow (3.5 feet in depth), precluding the possibility of significant vadose zone soil hydrocarbon impacts.

SITE BACKGROUND

The site is located in an industrial area of southeast San Francisco (see Figure 1 and Figure 2). The site is bordered on the northeast by the South Basin Inlet, which is tidally influenced and which drains southeast to San Francisco Bay. The site, which includes almost two city blocks, is occupied by several commercial/industrial tenants, including Bay Area Metals, Pacific Diamond Charters, Multeen Transportion, Scene 2, Bay Area Repair, Ace Roofing, Ranger Pipelines, Higgins Trucking, and Alpine Construction.

We have reviewed various documents for the site supplied by Mr. Reginald Ricci. Copies of selected portions of these documents are included in Attachment A. These documents indicate the following:

Standard Oil and Ricci & Kruse Lumber dated August 15, 1955 documenting the purchase of one 1,000-gallon gasoline underground tank (UST) ("north UST") located at "Hawes and Yosemite Avenue"; (2) An approved tank removal permit dated May 5, 1986 for one 1,000-gallon gasoline UST located 5 feet south from the intersection of Hawes Street and Yosemite Avenue and one 2,000-gallon gasoline UST ("south UST")located 80 feet south from the intersection of Hawes Street and Yosemite Avenue; (3) A report dated June 11, 1986 from Harding Lawson Associates (HLA) documenting the removal and sampling of the two site USTs and including a site plan showing approximate UST locations; and (4) A letter from San Francisco Department of Public Health to Ricci & Kruse Lumber requesting a sampling plan for the former USTs.

The HLA report states that the north UST was a single-walled steel tank in a concrete cradle or box with brown sand and gravel backfill. Upon removal, the tank showed some scaling and corrosion, with a small hole in the tank bottom on the south end of the tank. Groundwater was present in the tank excavation at about 3.5 feet in depth, and a hydrocarbon sheen was noted on the water surface. Soils surrounding the tank consisted of variable fill that included glass, organic matter, and metal. A soil sample collected three feet below the excavation floor showed 500 parts per million (ppm) of Total Petroleum Hydrocarbons as Gasoline (TPH-G), and a water sample collected from the excavation cavity showed 88 ppm of TPH-G.

The south UST, which was apparently installed in 1983, was constructed of tar-wrapped steel. Upon removal, the tank and tar-wrapping appeared to be in good condition. Backfill surrounding the tank consisted of brown sand. Groundwater was encountered in the excavation at a depth of about 5.0 feet below surface grade and exhibited a slight hydrocarbon sheen. A soil sample collected three feet below the excavation floor showed 110 ppm of TPH-G, and a groundwater sample from the excavation showed 100 ppm of TPH-G.

Assessment report was issued for the project site by Ecology and Environmental, Inc. on behalf of the USEPA Region 9. According to this document, the project site previously comprised tidal flats which were landfilled between approximately 1943 and 1955. Landfilled materials on the project site probably originated for Hunters Point Naval Shipyard, and materials encountered beneath the site have included construction debris, apparent military gear, hospital materials, vehicle parts, ship parts, and drummed wastes.

Contamination was encountered beneath Armstrong Avenue in 1986 during the installation of a sewer line by the City of San Francisco Department of Public Works (SFDPW). The SFDPW subsequently contracted various investigations to assess soil and groundwater impacts. These investigations identified primarily heavy-range hydrocarbon soil and groundwater impactes near the intersection of Armstrong Avenue and Hawes Street. A groundwater sample collected from a boring located approximately



150 feet west, in an expected upgradient groundwater flow direction, from the site USTs showed 800 parts per billion of benzene.

On June 14, 1992, a CERCLA Site Inspection report was issued for the project by Ecology and Environmental, Inc. on behalf of the USEPA Region 9. The site inspection did not include any sampling, but rather summarized and evaluated previous investigative results and potential human health and environmental risks. Summary tables included in this report showed variable concentrations of hydrocarbons and metals in soils and groundwaters along both sides of South Basin Inlet. In addition, this report includes a decision stating that the site "does not qualify for future remedial site assessment under CERCLA". The basis for this decision was that: (1) Hydrocarbons and metals contamination is widespread in bay fill materials and sediments, and contaminants beneath the site have not been associated with known onsite activities; (2) Groundwater use is limited in the site vicinity; and (3) While sediments in South Basin Inlet are contaminated with hydrocarbons and metals, this contamination cannot be attributed to the project site, since there are numerous potential offsite sources. Note that, according to this report, a boring, BH6, was drilled immediately east, in an expected downgradient groundwater flow direction, from the former project site 1,000gallon gasoline UST. A soil sample from this boring showed no detectable concentrations of TPH/BTEX constituents and background concentrations of metals.

On June 12, 2006, Gribi Associates submitted a workplan to SFDPH to conduct a soil and groundwater investigation on the site. This workplan was approved by SFDPH on July 14, 2006.

DESCRIPTION OF FIELD ACTIVITIES

In order to assess possible groundwater impacts relative to the two former site USTs, Gribi Associates drilled and sampled two soil borings in an expected downgradient (east) groundwater flow direction from each of the two former UST locations. In addition, since hydrocarbon impacts are present in upgradient fill materials, Gribi Associates also drilled two soil borings in an expected upgradient (west) groundwater flow direction from each of the former UST locations. The borings were drilled and sampled using direct-push coring equipment. Only groundwater samples were collected and submitted for laboratory analysis. All activities were conducted in accordance with applicable local, State, and Federal guidelines and statutes.

Prefield Activities

Prior to conducting drilling activities, written approval was obtained from the San Francisco Department of Public Health, Local Oversight Program. Also, a soil boring installation permit was obtained from and 72-hour notification was given to the San Francisco Bureau of Environmental Management. A copy of the permit is provided as Attachment B.



Prior to initiating drilling activities, Proposed boring locations were marked with white paint, and Underground Services Alert (USA) was notified at least 48 hours prior to drilling. Also, a Site Safety Plan was prepared, and a tailgate safety meeting was conducted with all site workers.

Location of Borings

Soil boring locations, B-1 through B-8, are shown on Figure 3. In order to assess possible hydrocarbon impacts, a total of eight soil borings were drilled, with two upgradient (west) borings and two downgradient (east) from each of the two former UST locations. For the former north UST, borings B-1 and B-2 were located upgradient from the former tank, and borings B-3 and B-4 were located downgradient from the former tank. For the former south UST, borings B-5 and B-6 were located upgradient from the former tank, and borings B-7 and B-8 were located downgradient from the former tank.

Drilling and Sampling of Investigative Soil Borings

The eight borings were drilled to a depth of about eight feet below surface grade using direct-push hydraulically-driven soil coring equipment. Under normal conditions, this coring system allows for the retrieval of almost continuous soil cores, which are contained in a clear plastic acetate tube, nested inside a stainless steel core barrel. However, due to the presence of fill material beneath the site, minimal core recovery was realized for several of the borings, resulting in difficulty in collecting soil samples. For recovered cores, after the core barrel was brought to the surface and exposed, the core was examined, logged, and field screened for hydrocarbons by a qualified Gribi Associates scientist using sight and smell. Due to the lack of significant recovery in several of the borings, soil samples were not collected, with concurrence from Ms. Stephanie Cushing of SFDPH.

Upon reaching total depth, 3/4 inch diameter Schedule 40 PVC well casing was placed in each boring, with 0.01-inch slotted well screen from about eight feet to three feet in depth, followed by blank well casing to above surface grade. Grab groundwater samples will then be collected from each of the borings using the clean stainless steel bailer as follows: (1) Laboratory-supplied containers were completely filled directly from the bailer with a minimum of agitation; (2) After making sure that no air bubbles are present, each container will then be tightly sealed with a Teflon-lined septum; and (3) Each container will then be labeled and placed in cold storage for transport to the analytical laboratory under formal chain-of-custody. All sampling equipment was thoroughly cleaned and decontaminated between each sample collection by triple rinsing first with water, then with dilute tri-sodium phosphate solution, and finally with distilled water. as described above.

Following completion of drilling and sampling activities, the eight investigative borings were grouted to match existing grade using a cement slurry.



Laboratory Analysis of Water Samples

One grab groundwater sample from each of the eight soil borings was analyzed for the following parameters:

USEPA 8015M Total Petroleum Hydrocarbons as Gasoline (TPH-G) USEPA 8021B Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) USEPA 8021B Methyl-t-Butyl Ether (MTBE)

In addition, grab groundwater samples from two of the eight borings was analyzed for the following parameter:

USEPA 160.1 Total Dissolved Solids (TDS)

All analyses were conducted by Sunstar Laboratories, a California-certified analytical laboratory, with two-week turn around time on laboratory results. A summary of laboratory results are provided as Table 1. A copy of the laboratory analytical reports is provided as Attachment C.

RESULTS OF INVESTIGATION

General Subsurface Conditions

Minimal core recoveries were noted in most of the borings, probably due to the presence of fill soils and to the shallowness of groundwater beneath the site. In borings with some recoveries (B-1, B-4, and B-6), soils consisted of dark grey gravelly sands with some swampy odors in the soils. Groundwater was encountered in all the borings at approximately 3.5 feet in depth.

Note that in boring B-6, brown sands were encountered from surface to four feet in depth, indicating possible backfill material.

Soil and groundwater samples from the eight borings exhibited no significant hydrocarbon odors or sheens.

Groundwater Laboratory Results

Four borings, B-1 through B-4, were drilled and sampled adjacent to the former north UST. Groundwater laboratory analytical results from the four borings showed minor levels of gasoline-range hydrocarbons at each boring location, with concentrations of TPH-g ranging from 130 ppb to 280 ppb, concentrations of benzene ranging from 5.5 ppb to 19 ppb, and concentrations of MTBE ranging from 5.5 to 24 ppb. Toluene was detected in groundwater samples from borings B-3 and B-4 at concentrations of 1.6 ppb and 2.4 ppb, respectively. Total xylenes were also detected in groundwater from boring B-4 at a concentration of 2.4 ppb. In



addition, the groundwater sample collected at B-2 was also analyzed for TDS and showed a concentration of 580 ppb.

Four borings, B-5 through B-8, were drilled and sampled in the vicinity of the former south UST. Groundwater laboratory analytical results showed minor levels of gasoline-range hydrocarbons at three of the four boring locations. The groundwater sample from B-8 showed no detectable concentrations of any hydrocarbon constituents. TPH-G and benzene were detected in the three remaining borings, B-5, B-6, and B-7, at concentrations ranging from 130 ppb to 1,900 ppb TPH-G and 3.0 ppb to 18 ppb benzene. Xylenes were detected in groundwater samples from borings B-5 and B-6 at concentrations of 7.7 ppb and 5.6 ppb, respectively. Toluene was detected in groundwater from B-6 at a concentration of 1.4 ppb. Ethylbenzene was detected in groundwater from B-5 at a concentration of 6.1 ppb. In addition, the groundwater sample collected at B-7 was also analyzed for TDS and showed a concentration of 1,900 ppb.

CONCLUSIONS

Groundwater laboratory analytical results from the eight soil borings show detectable, but relatively low, concentrations of gasoline-range hydrocarbons in groundwater in both upgradient borings, B-1, B-2, B-5, and B-6, and in downgradient borings, B-3, B-4, B-7, and B-8. Since these hydrocarbon results are at least similar, if not higher, in upgradient borings relative to downgradient borings, these results do not indicated significant hydrocarbon releases from the site USTs. Rather, these low hydrocarbon concentrations are consistent with hydrocarbon levels identified during previous investigations on the site and in the site vicinity, and would seem to represent relict hydrocarbons from pre-Ricci & Kruse Lumber activities.

Groundwater hydrocarbon concentrations in the eight borings were generally below regulatory action levels, and do not appear to pose a significant environmental or human health risk. When compared with the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Environmental Screening Levels (ESLs) for protection of aqueous habitats, all hydrocarbon concentrations are below ESLs except the TPH-G results of 1,900 ppb and 990 ppb for respective borings B-5 and B-6, which are above the ESL of 500 ppb. However, these borings are upgradient from both the former south UST and from borings B-7 and B-8. TPH-G concentrations in downgradient borings B-7 and B-8 were only 130 ppb and nondetect, respectively. Thus, the TPH-G impacts in B-5 and B-6 do not appear to have originated from the site UST, and there is little expectation that hydrocarbons in upgradient borings B-5 and B-6 will ever impact the adjacent South Basin Inslet, which represents the closest potential aqueous habitat. In addition, groundwater hydrocarbon concentrations in the eight borings are significantly lower than the groundwater ESLs for the evaluation of vapor intrusion concerns. Thus, the presence of low-level hydrocarbon impacts in soil and groundwater beneath the site and in the site vicinity does not pose a significant risk for continued commercial/industrial use of the site.



Based on the results of this investigation, which indicate the presence of low concentrations of hydrocarbons in groundwater throughout the site vicinity but no significant hydrocarbon releases from the site USTs, we recommend this site be granted regulatory site closure.

We appreciate the opportunity to present this workplan for your review. Please contact us if you have questions or require additional information.

Very truly yours,

Matthew A. Rosman

Project Engineer

James E. Gribi Registered Geologist California No. 5843 REGISTERED CEOLOGIST

No. 5843

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CALIFORNIA

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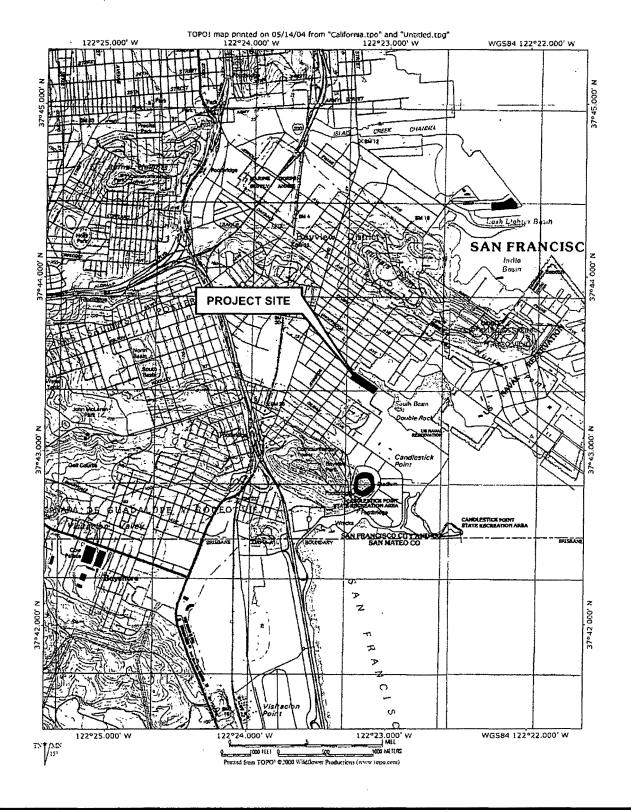
cc: Mr. Reginald Ricci, RWD Associates

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FIGURES





DESIGNED BY: CHECKED BY:

DRAWN BY: JG SCALE:

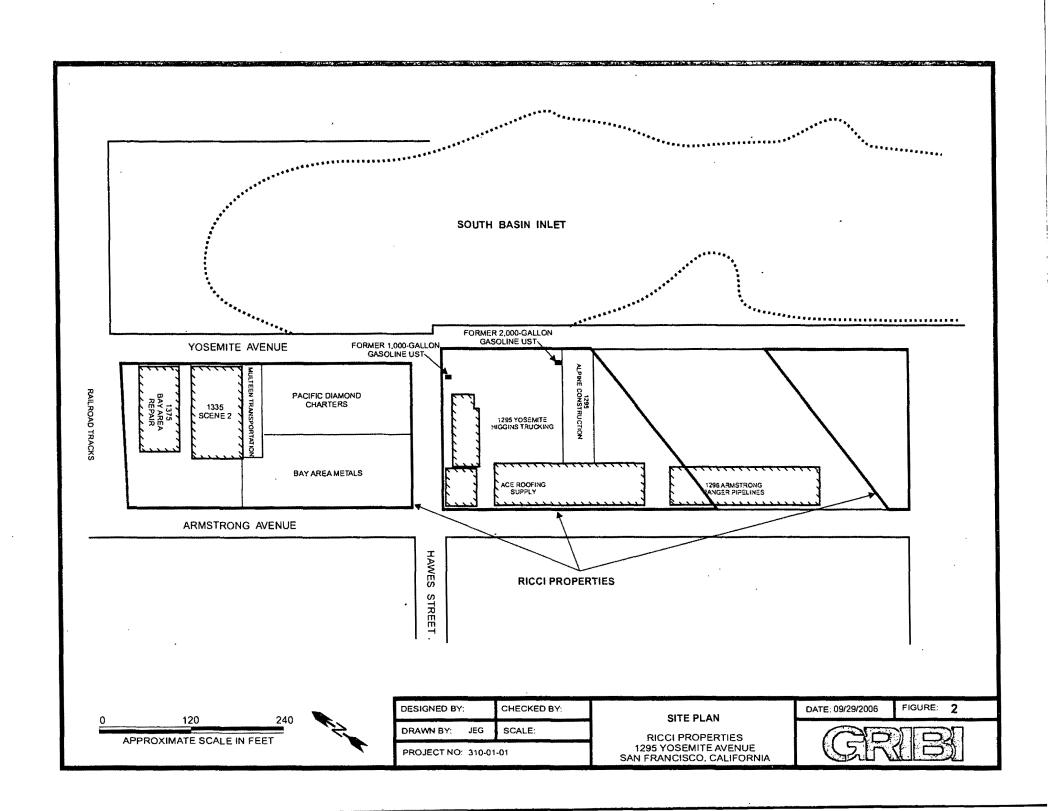
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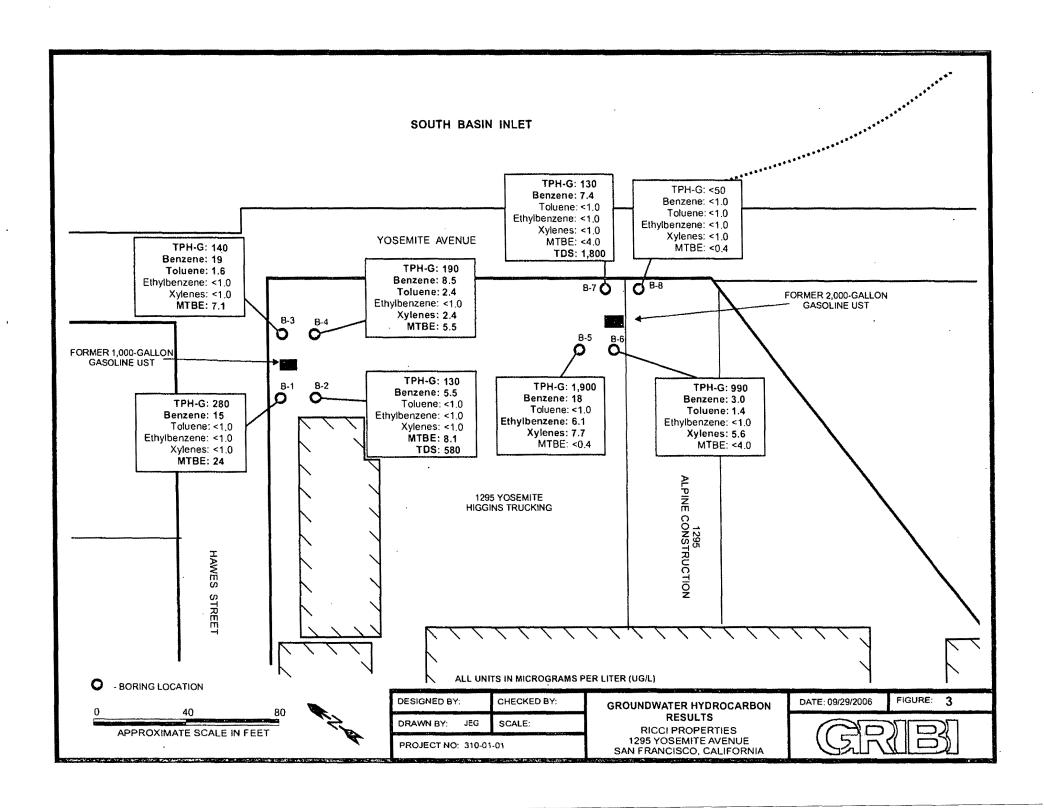
SITE VICINITY MAP

RICCI PROPERTIES 1295 YOSEMITE AVENUE SAN FRANCISCO, CALIFORNIA DATE: 09/29/06

FIGURE: 1







TABLE



Table 1 SUMMARY OF GROUNDWATER LABORATORY ANALYTICAL RESULTS

Ricci Property

1295 Yosemite Avenue, San Francisco, California

			s in parts per l		grams per liter)	
Sample ID	ТРН-С	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Total Dissolved Solids
B-1	280	15	<1.0	<1.0	<1.0	24	NA
B-2	130	5.5	<1.0	<1.0	<1.0	8.1	580
B-3	140	19	1.6	<1.0	<1.0	7.1	NA
B-4	190	8.5	2.4	<1.0	2.4	5.5	NA
B-5	1,900	18	<1.0	6.1	7.7	<4.0	NA
B-6	990	3.0	1.4	<1.0	5.6	<4.0	NA
B-7	130	7.4	<1.0	<1.0	<1.0	<4.0	1,800
B-8	<50	<1.0	<1.0	<1.0	<1.0	<4.0	NA
ESL-AQ	500	46	130	290	100	1,800	
ESL-VI	_	1,800	530,000	170,000	160,000	8,000	_

NOTES:

Groundwater samples were collected on September 5, 2006.

TPH-G = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl Tert-Butyl Ether

NA = Not Analyzed

ESL-AQ= Groundwater Environmental Screening Levels (groundwater is not a current or potential drinking water resource), Aquatic Habitat Goals, as contained in Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, San Francisco Bay Regional Water Quality Control Board, Interim Final, February 2005 (Appendix 1, Tables F-1b and F-4a).

ESL-VI = Groundwater Environmental Screening Levels for Evaluation of Vapor Intrusion Concerns (Appendix 1, Table E-1a),

ATTACHMENT A CLIENT-SUPPLIED SITE RECORDS



PETROLEUM PEODUCTS AND EQUIPMENT CONTRACT

Datus Anguet 15, 1955

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The term of this contract shell be for five (5) years, summending on the date notice, and thereafter until terminated by testre (12) gugiths' written motice from either party to the other of intention so to do, provided, comever, such notice shell not be served by either party prior to the end of said five (5) year term.

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II. Soller active to well to haver, and haver agrees to purchase from saller, the following described personal reports located at Barren a Topical Land residence. Called

1 - 1.000 Gallen W. G. Tank

1 - Mastric Computer Pump (Commercial type)

IV. All such peruthal property and to Suyer by Seiler shall be billed to Buyer at Seller's roat thereing, including sales taxen. Seller agree, if so requested by Buyer, to accure on behalf of Buyer the affectives of an independent contractor to install said personal property at self-precises. Duyer shall pay Seller the cost of lustablution of such a paid by Seller for Buyer's account, plus any increated expenses incurred by Geller in counsetton with the residuation.

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VI. Buyer and I efford weller adequate common of increme to and earness from mild personal property during resuler business borns. Buyer shall maintain all personal property is good condition and repair of Buyer's expenses, and shall pay all taxes and other costs in consisting with the earnership, well-cannon, and operation thereof

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sports, or injury to, or death of any person arising out of or in any voy nonnerted with the installation, an intesee, or operation of soid personal property.

VIII. There abol, be so colligation to deliver or to receive or use the usil products then and while, and to the extration, the receiving or using or annufacture or making deliveries to the continuary member are revented or bindered to and of Soc fire, firs, labor disturbance accident, war, unusual may government therefore my domain, federal, state, county or municipally, partial or total interruption or lass or shortege of pransportation facilities or emplies, shortege of products deliverable nereused due to shortege in the supply of swittable crode off or natural gas, courted ment of outsides, or by other dauged beyond the control of the partial, whether to the causes bereinbefore specified or not.

IX. In the event Hayer shall fail to perform or fulfill any obligation tended on Onyer barein, Seller at its may terminate this contract forthwith. The eater by Seller of any breach of any provision harmof by Bujut shall deceed to be a valver of the breach of may other provision or provisions bereif or of any authorance or just breach of such provision or provisions.

X. On tax dity, tol., ies, impost, oberso or other discitue, or the smoust equivalent thereto now or herestism isomed, in ted, or assessed by may governmental authority upon, measured by, incident to or as a result of the financial herein provided for by the transfertution, production, escapiture, use or ownership of the quote the subject actions of this agreement, and it of culterfile or payable by Soller, he paid by Solver on decand by Seller. Any such inspects shall be an addition to the prince offers as about provided for.

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DATE:	May 20, 1986
ro:	Chief, Bureau of Environmental Health, Department of Public Health
FROM:	Joseph A. Medina, Fire Marshal
REF:	Attached Application to Modify an Underground Storage Tank at 1295 Yosemite Street
Undergr Prevent applica soil as	d please find a copy of an Application for Modifying an ound Storage Tank filed with the Bureau of Fire ion. We respectfully request that you review the tion and provide the applicant with your requirements for mpling. Once soil samples have been taken and reviewed, note your findings below and return this copy to us. Thank
Please	take note of the following special information:
	Jaya a. Medine
	Joseph A. Medina. Fire Marshal
Report	of Findings: ()Approval ()Disapproval
Comment	B:
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Name______Phone Number_____ Date____

BIRREAU OF STORE SEPARATION

APPLICATION FOR NUMBERING AN UNDERGROUND STORAGE TANK

Applicants	Name Mr. Reginald Rice	1			
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City San Fr	rancisco	State	CA	Phone_	822-6790
	me Ricci and Kruse Lum				
Street Addr	ess 1295 Yosemite Avenu	e San Fran	cisco, (:A	Zip 94124
Type of Mod	ification Requested:				
Removal <u>x</u>	Abandonment in place	Oth	er (spec	ify)	
Do you have	reason to believe that	the tank(s	is cu	rrently,	or ever uas,
leaking?	Yes X No IF YES, p	lecse expla	in:		
Describe the	s tank(s) involved, inc	luding size	. type	(e.g., st	tool, fiberglass,
gallon, ster	o of Hawes Street and Your gasoline storage tank tand Yosemite Avenue in	(located 80	feet S	outh of t	the intersection of
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Harding Lawson Associates



June 11, 1986

17,830,001.04

Mr. Reginald Ricci 1295 Yosemite Avenue San Francisco, California 94124

Dear Mr. Ricci:

Observations and Testing Underground Tank Removal Yosemite Avenue and Ingalls Street San Francisco, California

This letter presents the results of our observations and sampling conducted during the removal of two underground gasoline storage tanks located in the lumber yard on the south corner of Yosemite Avenue and Ingalls Street. Our scope of services was to observe and document both the physical condition of the tanks and the subsurface conditions encountered within the two excavation, and to obtain soil and water samples.

OBSERVATIONS DURING TANK REMOVAL

Two gasoline storage tanks were excavated from the site on May 23, 1986 including one 1,000-gallon capacity gasoline tank (Tank 1) located approximately 25 feet northeast of the lumber yard building and one 2000-gallon capacity gasoline tank (Tank 2) located approximately 134 feet southeast of Tank 1. Tank locations are shown on Plate 1. Our field geologist was present to observe the tanks as they were removed, to note the soil conditions encountered in the excavation, and to obtain samples of soil and water.

Tank 1 is at least 10 years old but was reportedly not in service for about the last 3 years. The tank is of single-walled steel construction and no cathodic protection devices or protective outer coating were observed. The exterior of the tank showed indications of scaling and

Marding Lawson Associates

June 11, 1986 17,830,001.04 Mr. Regirald Ricci Page 2

corrosion and a small hole (less than 1/4-inch in diameter) was noted near the bottom of the tank toward the south end. The hole appeared to be the result of deterioration of the tank (corrosion) as opposed to demage to the tank during removal. Tank 1 was covered by about 3-1/2 feet of backfill and the surface was covered with asphalt paving. The lower portion of the tank was supported in a concrete cradle or box structure. The backfill consisted of a fine to coarse brown sand with obcasional gravels. Water was encountered in the tank excavation at a depth of about 3-1/2 feet below the surface. A sheen was noticed on the surface of the water. The soil cutside of the excavation backfill was heterogeneous fill material and contained debrie such as glass, organic matter, and metal (including an old water heater).

Tank 2 was installed in about 1983. The surface of the tank was coated with a tar-like substance which appeared to be in good condition. The tank was observed to be in good condition with no significant rusting or scaling. The tank was surrounded by brown sandy backfill and was overlain at the surface by asphalt paving. No odors were noticed during the excavation. Ground water was encountered at a depth of about 5 feet below the surface. There was a slight sheen on the water.

SAMPLING AND TESTING

Soil and water sampling was performed following the procedures described in the California Regional Water Quality Control Board's (PAQCB) guidelines. One soil sample was collected from each excavation at a depth of 3 feet below the excavation floor (below water) from the filler end of each tank. The samples were obtained from the backhoe bucket and were collected in stainless steel tubes which were covered with aluminum foil, capped, sealed, and placed in a cooler for delivery to an analytical laboratory. One water sample from each of the excavations was obtained with a stainless steel bailer. Each water sample was decanted into a volatile organic analyses bottle and was also sealed and stored on ice for delivery to the laboratory. All samples were accompanied with chain-of-custody forms.

Laboratory testing was performed by Analytical Science Associates in Emeryville, California. The soil and water samples were tested for hydrocarbons (gasoline) in accordance with the procedures cutlined by the RWOCB. The results of the chemical testing are attached.

CONCLUSIONS

A hydrocarbon sheen, detectable dissolved gasoline in the water and soil containing gasoline were encountered in both tank excavations. However,

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only Tank 1 had visible signs of a historic leak. The hydrocarbons detected around Tark 1 may have originated from the hole in the tank, historic spillage during overfilling, or a discrete source within the debris fill surrounding the tank. The sheen and the hydrocarbons detected in the soil and water at the east tank most likely originated from historic overfilling or possibly a source within the surrounding fill. The fill in this area contains random construction debris which may include hydrocarbon products dumped many years ago during reclamation of the site from San Francisco Bay. No potentially recoverable free product was noted.

If you have any questions regarding our observations and testing, please call.

25220

-31-89

CALIFO

Yours very truly,

HAPDING LAWSON ASSOCIATES

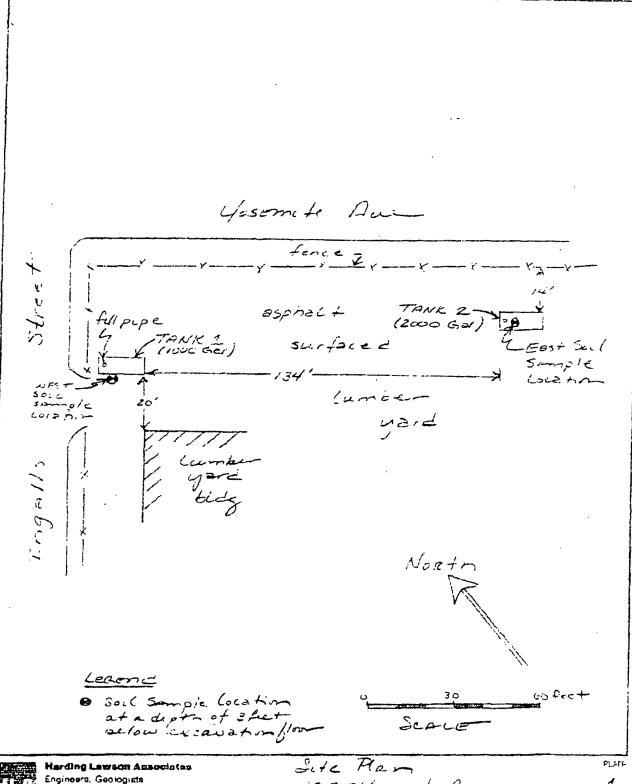
Donald G. Gray Civil Engineer

DGG/SEP/bt

Attachments: Plate 1 - Site Plan

Plate 2 - Laboratory Test Results

2 ocpies submitted





Engineers, Geologists & Geophysicists

1295 Hosernete Aug En Fransis seo. Calcit. FOUND DATE REVISED SET 6-11-86

אפרטיי מפּנ CATE 17000 830,001.04

ANALYTICAL SCIENCE ASSOCIATES, Inc.

475 EL ALAMO • DANVILLE, CA 94526 • (415) 820-9058 • (415) 547-6390

MLA PROJECT NO. 17000.830,001.04

JUNE 6, 1986 REGINALD RECCI

*AS GASOLINE

All values in ppm.

ATTENTION: DIANA DICKERSON

DATE SAMPLED: 5/23/86

•	TOTAL HYNDROCARBON* ppm
EAST SOIL	110
WEST SCIL	500
DETECTION LIMIT FOR SOILS	10 ppm
EAST WATER	100
WEST WATER	88
DETECTION LIMIT FOR WATER	1 ppm

_. .

William Proter Senior Scientist

City and County of San Francisco

Department of Public Health



MAY 22, 1986

Subject: 295 YESEWITE AND

. Rich & Kruse Lumperlo . Clo P. Picci . 295 Yeserine Ade . 5- Ca 94124

Gentlemen:

On Man 22,1986, we received an underground tank program referral from the San Francisco Fire Department for the subject address (attached). As you can see from the referral, it is our role to determine the scope of past and present tank leaks based upon sampling results. Since we are following the guidelines of the Regional Water Quality Control Board dated September, 1985 you will also find attached the requirements for Removal of Underground Fuel Tanks.

At your satiliest convenience please send us a copy of your sample plan, including diagrams, along with the name of the qualified laboratory which will sample and analyze the samples. After we have reviewed your plan, you will be contacted and be informed of the acceptance or modifications necessary to obtain acceptance. When the plan is accepted you will then be informed that you may proceed and that we require 48 hours prior notification of the tank removal so that we may be present to view the exposed excavation. Based upon the conditions found at the excavation, additional sampling may be necessary.

We will review all of the laboratory reports to determine whether or not additional sampling, soil removal, or monitoring wells are required.

If you have any questions, please feel free to contact us at 558-3781.

Very truly yours.

1 destination

LL br

cc. SFFD Haz-Mat Section

DEC 3 1 1990

Purpose: CERCLA Preliminary Assessment

☐ Calendareu

Site: Buckeye Properties

1296 Armstrong Avenue San Francisco, CA 94124 San Francisco County

Site EPA ID Number:

CAD982392243

TDD Number:

F9-9008-020

Program Account Number:

FCA1545PAA

FIT Investigators:

Jennifer Eberle

Janet Kaps Paul Brown

Date of Inspection:

August 22, 1990 and

September 20, 1990

Report Prepared By:

Jennifer Eberle

Through:

Paul H. Brown

Report Date:

Submitted To:

December 7, 1990

FIT Review/Concurrence:

Paul La Courreye

EPA Region IX

Site Assessment Manager

ecology and environment, inc.

160 SPEAR STREET, SAN FRANCISCO, CALIFORNIA 94105, TEL. 415/777-2811

International Specialists in the Environment

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4 0239

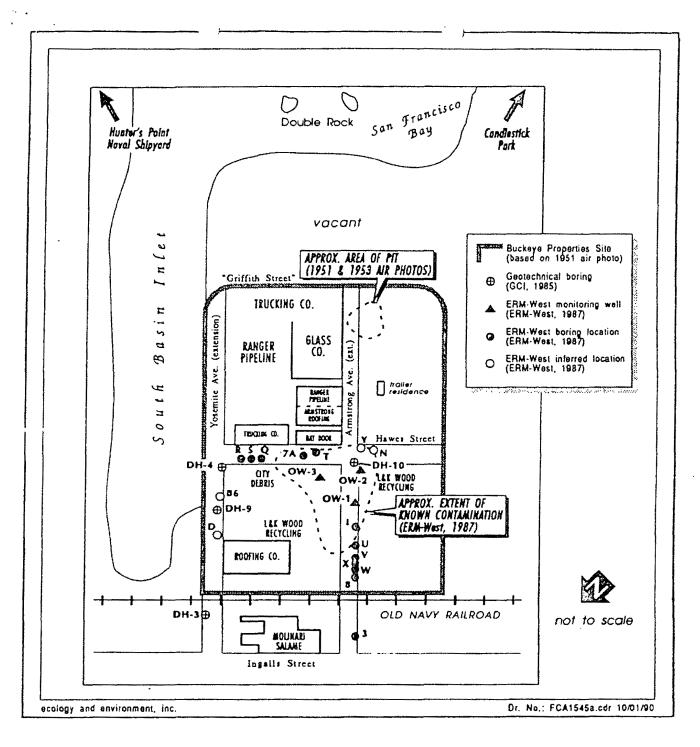


Figure 2
FACILITY MAP -- BUCKEYE PROPERTIES
1296 Armstrong Avenue
San Francisco, CA

4 0236

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

75 Hawthorne Street San Francisco, California 94105

SEP 1 7 1993

Regional Ricci 4 Buckeye Road Belvedere, California 94920

Dear Sir/Madam:

Enclosed please find the Site Assessment report prepared for EPA concerning the CERCLA evaluation for this site.

EPA encourages your written comments on this report. Your comments should be sent to Carolyn Douglas, Site Assessment Manager, EPA mail stop H-8-1. If you have any questions please contact her at (415)744-2343.

Sincerely,

Thomas A. Mix, Chief Site Evaluation and Grants Section

Carolynd Douglas

Enclosure

Purpose: CERCLA Site Inspection

Site: Buckeye Properties

1296 Armstrong Ave. San Francisco, CA

Site EPA ID Number:

CAD982392243

Investigators:

James M. James

Date of Inspection:

February 3, 1993

Report Prepared By:

James M. James

Report Date:

June 14, 1993

E & E Review/Concurrence:

Patty Cool

Submitted To:

Carolyn Douglad EPA Region IX

Site Assessment Manager

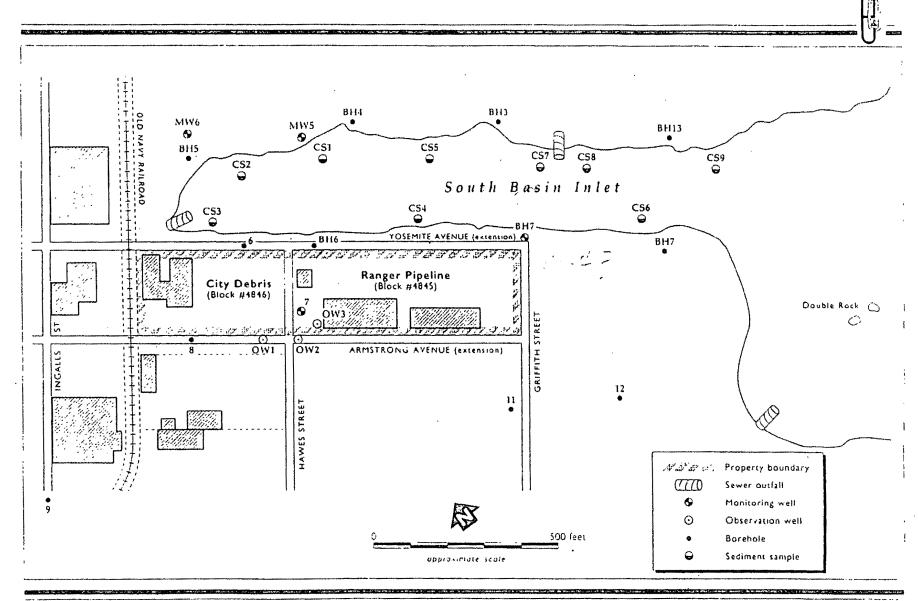


ecology and environment, inc.

160 SPEAR STREET, SAN FRANCISCO, CALIFORNIA 94105, FEL 415,777 2811

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Q1991 ecology and environment, inc

Figure 5-1

SAMPLE LOCATIONS MAP

Buckeye Properties 1296 Armstrong Avenue San Francisco. California 2:27 50cm "6 18"

Table 5-1 Waste Material Analyses

Concentration (mg/kg)

Sampling Location*

Analyte	OW1	0 W 2	0 V 3
Acenapthylene	48	<10	5,400
Anthracene	40	25	<2,000
Chrysene	15	<10	<2,000
Flouranthene	58	33	4,100
Flourene	18	17	<2,000
Naphthalene	210	180	48,000
Phenanthrene	150	88	11,000
Pyrene	100	81	<2,000
ТРН	460	1,400	470,000

Reference: 4.

^{*} Sampling location are shown on Figure 5-1.

Table 5 2 On-Site Subsurface Soil Analyses

Concentration (mg/kg)

Sampling Location*

Analyte	6	7	7 i	8	вн6	HV4
Crossoto	NA	<10	AT A	<10	NA	113
Creosote			NA			NA
Pentachlorophenol	NA	<10	NA	<10	NA	NA
PCBs	<0.1	<0.1	NA	<0.1	NA	NA
Cyanide	<0.2	<0.2	NA	<0.2	NA	NA
Cadmium	0.4	0.7	12	0.2	NA	NA
Chromium	44	50	43	44	37	210
Copper .	19	94	440	64	20	45
Lead	11	76	230	13	160	10
Nickel	49	46	140	28	58	380
Zinc	44	180	7,400	35	NA	NA
Mercury	0.012	0.020	0.023	0.039	NA	NA
Tetrachloroethene	<0.05	NA	NA	NA	<0.005	<0.005
1,2-Dichloroethene	<0.05	NA	NA	NA	NA	NA
Benzene	<0.05	NA	NA	0.66	17.005	<0.005
Toluene	1.3	NA	NA	<0.05	NA	NA
Chlorobenzene	<0.05	NA	NA	<0.05	NA	NA
1,3-Dichlorobenzene	<0.05	NA	NA	<0.05	NA	NA
Ethyl benzene	<0.05	NA	NA	<0.05	<0.005	0.005
ТРН	NA	NA	NA	NA	<5	57

Reference: 4,5.

Boldface = Indicates concentrations 3 or more times background.

^{* -} Sampling location are shown on Figure 5-1.
NA = Not Analyzed.

Table 5 3 Off-site Subsurface Soil Analyses

Concentration (mg/kg)

Sampling Location*

Contaminant	9	11	12	внз	ВН4	вн5	Mean	Range
Creosote	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA
PCBs	<0.1	<0.1	<0.1	NA	NA	NA	<0.1	<0.1
Cyanide	<0.2	<0.2	<0.2	NA	NA	NA	<0.2	<0.2
Cadmium	<0.2	<0.2	1.8	NA	NA	NA	0.6	<0.2-1.8
Chromium	94	320	46	86	33	24	100	24-320
Copper	18	29	62	330	22	10	78	10-330
Lead	11	30	740	230	120	130	210	11-740
Nickel	50	490	41	480	140	16	203	16-490
Zinc	37	72	390	NA	NA	NA	166	37-390
Mercury	0.054	0.071	0.067	NA	NΛ	NA	0.064	.05471
Tetrachloroethene	0.38	<0.05	<0.05	<0.005	<0.005	<0.00	5 .06	<.00538
1,2-Dichloroethene	<0.05	<0.05	0.26	NA	NA	NA	.09	<.0526
Benzene	0.11	<0.05	<0.05	<0.005	<0.005	<0.00	5 .02	<.00511
Toluene	0.89	<0.30	<0.05	NA	NA	NA	0.40	<.0589
Chlorobenzene	<0.05	3.3	0.31	NA	NA	NA	1.2	<.05-3.3
1,3-Dichlorobenzene	<0.05	1.5	NA	NA	NA	NA	0.50	<.05-1.5
Ethyl benzene	<0.05	1.0	<0.05	<0.005	<0.005	<0.003	5 .17	<.005-1.0
TPH	NA	NA	NA	260	2,500	72	944	15-2,500

NA = Not Analyzed.

Reference: 4,5.
* - Sampling location are shown on Figure 5-1.

Table 5-4

Groundwater Analyses

Concentration (mg/l)

Sampling Location*

Analyte	7 A	HW4	MV5	MV6	MCL
Chromium	NA	0.09	0.019	0.06	0.1
Copper	NA	0.09	<0.05	0.17	1.3
Lead	NA	0.20	<0.005	0.020	0.05 (CA)
Nickel	NA	0.19	0.08	0.29	0.1
Mercury	NA	<0.001	<0.001	<0.001	0.002
1,1-Dichloroethene	0.17	<0.005	<0.005	<0.005	0.005(CA)
Benzene	0.80	<0.005	<0.005	<0.005	0.005
Toluene	0.14	<0.005	<0.005	<0.005	1.000
Ethyl benzene	1.00	<0.005	<0.005	<0.005	. 0 . 700
Xylenes	1.2	<0.005	<0.005	<0.005	10
TPH	680	<1	1 .	<1	NA

Reference: 4,5.

NA = Not Analyzed.

Boldface = Indicates concentrations 3 or more times background.

CA = California state action level.

^{* -} Sampling location are shown on Figure 5-1.

Table 5-5
Surface Water Sediment Analyses

Concentration (mg/kg).

Sampling Location*

Contaminant	CS3	CS4	CS1	CS2	CS5	CS6	CS7	C\$8	CS9
Chromium	27	42	41	250	48	680	65	14	90
Copper	17	34	22	76	110	140	170	95	74
Lead	29	140	1,300	420	470	420	170	200	210
Nickel	21	28	180	37	56	550	62	35	41
TPH	68	990	98	1,200	660	360	280	960	1,300

Reference: 5.

 $[\]star$ - Sampling location are shown on Figure 5-1.

REMEDIAL SITE ASSESSMENT DECISION - EPA REGION $\underline{-tx}$

ity:S	an Fra	ncisco				County or Par	rish: S	an Francisco		State: CA
efer to R	Report Da	ted:	6/14	/93		Report type:	Scree	ning Site In		
aport de	veloped t	ογ:	Ecol	оду а	nd Envi	ronment, I	nc.		-	
								A	7	
DECIS	ION:									
1 1.	Further	Remedia	Site	A33055	ment und	er CERCLA (Si	uperfund)	is <u>not</u> required b	ecause:	
	XI) 1a.	site ass	essn	nent und	ler CERCL	er remedial A J - SEA)		16. Site may qu action, but	ualify for furthe is deferred to:	
2.	Further A	Assessm	ent f	bebeek	Under CEF	RCLA:	2a.	(optional) Priori	ty: Highe	er Lower
2b.	Activity Type:		-			ESI HRS e	ivaluation			
		1	1	Other:						
DISCU	SSION	/RATIO	INA	LE:						
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ATTACHMENT B DRILLING PERMITS





City and County of San Francisco DEPARTMENT OF PUBLIC HEALTH

Gavin Newsom, Mayor Mitchell H. Katz. M.D. Director of Health

ENVIRONMENTAL HEALTH SECTION

Application for Monitoring Well Construction/Destruction or Soil Borings

al Depth: al Material: TRATION: Approximate Depth. TELY EIGHT (3) SOIL BORINGS TO A DEPTH OF EIGHT DIPMENT IN SOIL BORINGS ARE TO BE BACKFILLED with well location. (Recommend Assessor's Map) of. sions shall be from the centerline of the closest named street,
real Material: Thation: Approximate Depth. TELY EIGHT (3) SOIL BORINGS TO A DEPTH OF EIGHT
real Material: Thation: Approximate Depth. TELY EIGHT (3) SOIL BORINGS TO A DEPTH OF EIGHT
rnation: Approximate Depth.
rnation: Approximate Depth.
al Material:
() On Private Property [] On City Property
[] LOP Workplan
[] Baseline Study [] Well Destruction
ls [] Compliance Well
Monitoring Wells Construction [] Chemical Leaks
ber of Proposed Wells/Borings
(7C7) 748 7752 FAX
Telephone Number (707) 748-7743
BENICIA, CA, 94510
City, State, Zip
1090 ADAMS STREET, SUITE K
Address
GRIBI ASSOCIATES
Consultant /Engineer/Geologist Name
ANCISCO, CALIFORNIA ER, CONSULTANT OR DRILLER
E

If proposed well is to meet complian Hazardous Materials Unified Progressional Complete Compl	Date Date accepted) on and attachments(s) heretence the described project application by Permittee and the project of Soil Botings: APPROVED DISAPPROVED	C-57 Driller's Lie Civil Engineer Re Engineering Geol (if any) and subject to a Permission to start may be d is also subject to any "C	ense Number 843 egistration Number or ogist Certificate Number oproval noted below, e withheld until a field eneral" and "Special"
Hazardous Materials Unified Programme and Address of Well Daillet Consideration of Responsible Professional (NO substitution of Signature will be a Based on information on the application permission is hereby granted to communicate verifies all statements made on a conditions attached. To be Completed by Well Section Statements	Date Date Date accepted) on and attachments(s) heret ence the described project application by Permittee and taff: Project # 249	C-57 Driller's Lie Covil Engineer Re Engineering Geol (if any) and subject to a Permission to start may be d is also subject to any "Co	ense Number 843 egistration Number or ogist Certificate Number oproval noted below, e withheld until a field eneral" and "Special"
Hazardous Materials Unified Programme and Address of Well Daillef Consideration of Responsible Professional (NO substitution of Signature will be a Based on information on the application permission is hereby granted to communicately verifies all statements made on a conditions attached.	Date Date accepted) on and attachments(s) heretence the described project application by Permittee an	C-57 Driller's Lie Covil Engineer Re Engineering Geol (if any) and subject to a Permission to start may be d is also subject to any "Co	ense Number 843 egistration Number or ogist Certificate Number oproval noted below, e withheld until a field eneral" and "Special"
Hazardous Materials Unified Programme and Address of Wed Dailler Consider Professional (NO substitution of Signature will be a Based on information on the applicant permission is hereby granted to comme check verifies all statements made on a	Date Date accepted) on and attachments(s) heretence the described project	Yes No 485365 C-57 Driller's Lie Court Engineer Re Engineering Geole O (if any) and subject to a Permission to start may be	ense Number 8 43 egistration Number or ogist Certificate Number oproval noted below, e withheld until a field
Hazardous Materials Unified Progra GREGG DRILLING Name and Address of Well Dailler Co	ompany Date	Yes No 485165 C-57 Driller's Lie P.G. # S. Civil Engineer Re	ense Number 843 egistration Number or
Hazardous Materials Unified Progra GREGG DRILLING Name and Address of Well Daillef Co	ompany	Yes No 485165 C-57 Driller's Lie P.G. # S	ense Number 843
Hazardous Materials Unified Progra	am been contacted:	[] Yes [] No 485165	
Hazardous Materials Unified Progra		[]Yes[]No	re Ordinance, has the
If near need well to be much as more	ice with a fractional MEM	こうちょう しんけいしん しんりんしきん	re Ordinanou had the
CERTIFICATION BY WELL OWNE I certify the information above is corre- compliance with the conditions this per Materials Permit & Disclosure Ordina notify this Section of any changes in the	ect to the best of my knowle ermit, the San Francisco He ance of the City/County. It he purpose of this well from	edge. I certify that the we alth Code and, if applicab is my responsibility as the that which is indicated or	le, the Hazardous responsible party to n this application form
·			
		,	
SEE ATTACHED	FIGURES		

ATTACHMENT C LABORATORY ANALYTICAL REPORTS



14 September 2006

Jim Gribi Gribi Associates 1090 Adam Street, Suite K Benicia, CA 94510

A=7.H=.

RE: Ricci Property

Enclosed are the results of analyses for samples received by the laboratory on 09/07/06 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron Harris

Project Manager

Project: Ricci Property Project Number: [none] Project Manager: Jim Gribi

Reported: 09/14/06 12:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1	T601204-01	Water	09/05/06 00:00	09/07/06 08:00
B-2	T601204-02	Water	09/05/06 00:00	09/07/06 08:00
B-3	T601204-03	Water	09/05/06 00:00	09/07/06 08:00
B-4	T601204-04	Water	09/05/06 00:00	09/07/06 08:00
B-5	T601204-05	Water	09/05/06 00:00	09/07/06 08:00
B-6	T601204-06	Water	09/05/06 00:00	09/07/06 08:00
B-7	T601204-07	Water	09/05/06 00:00	09/07/06 08:00
B-8	T601204-08	Water	09/05/06 00:00	09/07/06 08:00

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Aaron Harris, Project Manager

1090 Adam Street, Suite K Benicia CA, 94510 Project: Ricci Property

Project Number: [none]
Project Manager: Jim Gribi

Reported: 09/14/06 12:17

B-1 T601204-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborator	ies, Inc.					
Purgeable Petroleum Hydrocarbo	ns by EPA 8015n	1							
C6-C12 (GRO)	280	50	ug/l	1	6090717	09/07/06	09/14/06	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		100 %	65-1	35	"	"	"	"	
Volatile Organic Compounds by E	PA Method 8021	В							
Methyl tert-butyl ether	24	4.0	ug/l	1	6090717	"	09/14/06	EPA 8021B	
Benzene	15	1.0	11	**	**	,,	"	**	
Toluene	ND	1.0	11	**	••	"	"		
Ethylbenzene	ND	1.0	**	"	**	••	,,		
m,p-Xylene	ND	2.0	"	**	"	**	**	п	
o-Xylene	. ND	1.0	"	"		"	"	**	
Surrogate: 4-Bromofluorobenzene		81.0 %	65-1	35	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

A=7. H=.

Project: Ricci Property

Project Number: [none] Project Manager: Jim Gribi Reported: 09/14/06 12:17

B-2 T601204-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aboratoi	ies, Inc.					
Purgeable Petroleum Hydrocarbon	s by EPA 8015n	1							
C6-C12 (GRO)	130	50	ug/l	1	6090717	09/07/06	09/13/06	EPA 8015m	
Surrogate: 4-Bromosluorobenzene		96.6 %	65-	135	"	"	"	"	
Volatile Organic Compounds by EF	A Method 8021	В							
Methyl tert-butyl ether	8.1	4.0	ug/l	ı	6090717	**	09/13/06	EPA 8021B	
Benzene	5.5	1.0	"	"	**	"	n	н	
Toluene	ND	1.0	"	**	11	"	••	H	
Ethylbenzene	ND	1.0	n	"	**	*1	n	**	
m,p-Xylene	ND	2.0	**	11	"	**		u .	
o-Xylene	ND	1.0		**	10	"	"		
Surrogate: 4-Bromofluorobenzene		77.8 %	65-	135	"	"	"	"	
Conventional Chemistry Parameter	s by APHA/EPA	Methods							
Total Dissolved Solids	580	10	mg/l	1	6090716	09/07/06	09/08/06	EPA 160.1	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

A=7.4=.

1090 Adam Street, Suite K Benicia CA, 94510 Project: Ricci Property

Project Number: [none] Project Manager: Jim Gribi Reported:

09/14/06 12:17

B-3 T601204-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	borato	ries, Inc.					
Purgeable Petroleum Hydrocarbo	ns by EPA 8015m	1							
C6-C12 (GRO)	140	50	ug/l	1	6090717	09/07/06	09/14/06	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		96.4 %	65-	135	"	"	"	"	
Volatile Organic Compounds by E	PA Method 8021	В							
Methyl tert-butyl ether	7.1	4.0	ug/l	1 ,	6090717	11	09/14/06	EPA 8021B	W. LL. LL.
Benzene	19	1.0	#	*	"	"	71	tt	
Toluene	1.6	1.0	"	·ii	"	**	Ħ	**	
Ethylbenzene	ND	1.0	**	**	,,	11	**		
m,p-Xylene	ND	2.0	"	**	11	e	tt	"	
o-Xylene	ND	1.0	11	**	11	**	**	н	
Surrogate: 4-Bromofluorobenzene		77.8 %	65-	135	"	**	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

1090 Adam Street, Suite K

Benicia CA, 94510

Project: Ricci Property

Project Number: [none]
Project Manager: Jim Gribi

Reported: 09/14/06 12:17

B-4 T601204-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aboratorio	s, Inc.					
Purgeable Petroleum Hydrocarbor	is by EPA 8015m	1							
C6-C12 (GRO)	190	50	ug/l	1	6090717	09/07/06	09/13/06	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		100 %	65-13	5	"	"	"	"	
Volatile Organic Compounds by E	PA Method 8021	В							
Methyl tert-butyl ether	5.5	4.0	ug/l	l	6090717		09/13/06	EPA 8021B	
Benzene	8.5	1.0	"	**			"	**	
Toluene	2.4	1.0	**	**	**	*	••	II .	
Ethylbenzene	ND	1.0	"	**		"	11	**	
m,p-Xylene	2.4	2.0	11	11	**	"	"	н	
o-Xylene	ND	1.0	tr .			11	"	**	
Surrogate: 4-Bromofluorobenzene		77.4 %	65-13	5	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

1090 Adam Street, Suite K

Benieia CA, 94510

Project: Ricci Property

Project Number: [none]

Project Manager: Jim Gribi

Reported: 09/14/06 12:17

B-5 T601204-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	boratori	es, Inc.					
Purgeable Petroleum Hydrocarboi	ns by EPA 8015n	ı ,							
C6-C12 (GRO)	1900	50	ug/l	1	6090717	09/07/06	09/14/06	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		108 %	65-1	35	"	"	"	".	
Volatile Organic Compounds by E	PA Method 8021	В			•				
Methyl tert-butyl ether	ND	4.0	ug/l	1	6090717	"	09/14/06	EPA 8021B	
Benzene	18	1.0	11	**	**	11	"	**	
Toluene .	ND	1.0	"	11	н	11	*1	**	
Ethylbenzene	6.1	0.1	H .	11	114	**	•	**	
m,p-Xylene	7.7	2.0	**	**	n	n	**	н	
o-Xylene	ND	1.0		"	n	"	11		
Surrogate: 4-Bromofluorobenzene		75.2 %	65-1	35	Ħ	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

7-1.71-

Gribi Associates 1090 Adam Street, Suite K Project: Ricci Property Project Number: [none]

Benicia CA, 94510

Project Number: [none]
Project Manager: Jim Gribi

Reported: 09/14/06 12:17

B-6 T601204-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	S	unStar La	borator	ies, Inc.					
Purgeable Petroleum Hydrocarboi	ns by EPA 8015m								
C6-C12 (GRO)	990	. 50	ug/l	1	6090717	09/07/06	09/14/06	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		88.4 %	65-1	35	"	"	n	"	
Volatile Organic Compounds by E	PA Method 8021B								
Methyl tert-butyl ether	ИИ	4.0	ug/l	1	6090717	lı .	_09/14/06	EPA 8021B	7.22.00
Benzene	3.0	1.0	**)1	**	n	**	**	
Toluene	1.4	1.0	**	"	tt	41	"	**	
Ethylbenzene	ND	1.0	**		"	15	••	87	
m,p-Xylene	3.3	2.0	**	n	11	••	11	n	
o-Xylene	2.3	1.0	Ħ	**		1F	"	**	
Surrogate: 4-Bromofluorobenzene		67.8 %	65-1	35	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

1090 Adam Street, Suite K Benicia CA, 94510 Project: Ricci Property

Project Number: [none] Project Manager: Jim Gribi Reported: 09/14/06 12:17

B-7 T601204-07 (Water)

Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	SunStar La	aborato	ries, Inc.					
by EPA 8015n	n				•			
130	50	ug/l	1	6090717	09/07/06	09/14/06	EPA 8015m	
	93.8 %	65-	135	"	"	"		
Method 8021	В						٠	
ND	4.0	ug/l	1	6090717	**	09/14/06	EPA 8021B	
7.4	1.0	#	**	**	и	**	u	
ND	1.0	11	ø	18	II	tr	#	
ND	1.0	**	**	**	**	**	**	
ND	2.0	11	**	п	*	11	**	
ND	1.0	**	**	"	11	"	11	
	74.6 %	65-	135	**	e	"	tt.	
by APHA/EPA	A Methods							
1800	10	mg/l	1	6090716	09/07/06	09/08/06	EPA 160.1	
	by EPA 8015n 130 Method 8021 ND 7.4 ND ND ND ND ND ND ND	Result Limit SunStar La	Result Limit Units SunStar Laborator	Result Limit Units Dilution	Result Limit Units Dilution Batch	Result Limit Units Dilution Batch Prepared	Result Limit Units Dilution Batch Prepared Analyzed	Result Limit Units Dilution Batch Prepared Analyzed Method

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

A=7.4=

Project: Ricci Property

Project Number: [none] Project Manager: Jim Gribi Reported: 09/14/06 12:17

B-8 T601204-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aboratorio	s, Inc.					
Purgeable Petroleum Hydrocarbo	ns by EPA 8015m	1 +							
C6-C12 (GRO)	ИD	50	ug/l	1	6090717	09/07/06	09/14/06	EPA 8015m	
Surrogate: 4-Bromofluorobenzene	•	95.4 %	65-13	5	"	"	и ·	"	
Volatile Organic Compounds by E	PA Method 8021	В							
Methyl tert-butyl ether	ND	4.0	ug/l	1	6090717	n	09/14/06	EPA 8021B	
Benzene	ND .	1.0	11	**	п	**	И	**	
Toluene	ND	1.0	11	"	n	17	"	1)	
Ethylbenzene	ND	1.0	**	н	**	#1	•	**	
m,p-Xylene	CIN	2.0	H	**	u	11	10	**	
o-Xylene	ND	1.0	"	11	**	n	"	71	
Surrogate: 4-Bromofluorobenzene		77.8 %	65-13	5	u	"	"	**	

SunStar Laboratories, Inc.

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Project: Ricci Property

Project Number: [none]
Project Manager: Jim Gribi

Reported: 09/14/06 12:17

Purgeable Petroleum Hydrocarbons by EPA 8015m - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6090717 - EPA 5030 GC										
Blank (6090717-BLK1)				Prepared:	09/07/06	Analyzed	d: 09/13/06			
Surrogate: 4-Bromofluorobenzene	46.4		ug/l	50.0		92.8	65-135			
C6-C12 (GRO)	ND	50	**							
LCS (6090717-BS1)				Prepared:	09/07/06	Analyzed	: 09/14/06			
Surrogate: 4-Bromofluorobenzene	59.0		ug/l	50.0		118	65-135			
C6-C12 (GRO)	4910	50	11	5500		89.3	75-125			
Matrix Spike (6090717-MS1)	Sou	ırce: T601204	4-02	Prepared:	09/07/06	Analyzed	: 09/14/06	Annught on the Main (1868)		
Surrogate: 4-Bromofluorobenzene	58.8		ug/l	50.0		118	65-135			
C6-C12 (GRO)	4780	50	"	5500	130	84.5	65-135			
Matrix Spike Dup (6090717-MSD1)	Sou	ırce: T601204	4-02	Prepared:	09/07/06	Analyzed:	09/14/06			
Surrogate: 4-Bromofluorobenzene	53.7		ug/l	50.0		107	65-135			
C6-C12 (GRO)	5450	50	"	5500	. 130	96.7	65-135	13.1	20	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Project: Ricci Property

Project Number: [none]
Project Manager: Jim Gribi

Reported: 09/14/06 12:17

Volatile Organic Compounds by EPA Method 8021B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6090717 - EPA 5030 GC										
Blank (6090717-BLK1)				Prepared:	09/07/06	Analyzed	1: 09/13/06			
Surrogate: 4-Bromofluorobenzene	38.3		ug/l	50.0		76.6	65-135			
Methyl tert-butyl ether	ND	4.0	"							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"				•			
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0	H							
o-Xylene	ND	1.0	"							
LCS (6090717-BS1)		<u>.</u>		Prepared:	09/07/06	Analyzed	: 09/14/06			
Surrogate: 4-Bromofluorobenzene	43.8		ug/l	50.0		87.6	65-135			
Benzene	71.8	1.0	o	97.0		74.0	70-130			
Toluene	346	1.0	**	470		73.6	70-130			
Ethylbenzene	73.1	1.0	"	94.0		77.8	70-130			
m,p-Xylene	293	2.0	"	394		74.4	70-130			
o-Xylene	106	1.0	"	136		77.9	70-130			
Matrix Spike (6090717-MS1)	Sou	rce: T601204	1-02	Prepared:	09/07/06	Analyzed	: 09/14/06			
Surrogate: 4-Bromofluorobenzene	43.4		ug/l	50.0		86.8	65-135			
Benzene	73.4	1.0	,,	97.0	5.5	70.0	70-130			
l'oluene	337	1.0	"	470	ND	71.7	70-130			
Eth ylbenzene	71.0	1.0	"	94.0	ND	75.5	70-130			
n,p-Xylene	287	2.0	11	394	ND	72.8	70-130			
o-Xylene	104	1.0	"	136	ND	76.5	70-130			
Matrix Spike Dup (6090717-MSD1)	Sou	rce: T601 2 04	J-02	Prepared: (09/07/06	Analyzed:	09/14/06			
Surrogate: 4-Bromofluorobenzene	41.2		ug/l	50.0		82.4	65-135	· · · · · · · · · · · · · · · · · · ·		
Benzene	80.5	1.0	"	97.0	5.5	77.3	70-130	9.23	20	
foluene ·	372	1.0	п	470	ND	79.1	70-130	9.87	20	•
Ethylbenzene	79.4	1.0	••	94.0	ND	84.5	70-130	11.2	20	
n,p-Xylene	317	2.0		394	ND	80.5	70-130	9.93	20	
-Xylene	113	1.0		136	ND	83.1	70-130	8.29	20	

SunStar Laboratories, Inc.

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Total Dissolved Solids

1090 Adam Street, Suite K

Benicia CA, 94510

Project: Ricci Property

Project Number: [none] Project Manager: Jim Gribi

Reported: 09/14/06 12:17

0.345

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6090716 - General Preparation					A					
Duplicate (6090716-DUP1)	So	urce: T60120	4-02	Prepared:	09/07/06	Analyzed	: 09/08/06	i		

mg/l

10

580

578

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Gribi Associates 1090 Adam Street, Suite K

Benicia CA, 94510

Project: Ricci Property

Project Number: [none] Project Manager: Jim Gribi Reported:

09/14/06 12:17

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

SunStar Laboratories, Inc.

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A=7.4=

SunStar Laboratories, Inc. 3002 Dow Ave, Suite 212 Tustin, CA 92780 1-800-781-6777

Chain of Custody Record

760/204

Client: GRIBI ASSOCIATES Address: 1090 ADAMS STREET, SUITE K			Date: Project N	9 6/6 ame: R		opert,	Page:	/ of /	-	
Phone: (707) 748-7743	Fax: (707) 748-7763			JIM GR		PCIT		roject #:	- ``	
Project Manager: JAMES GRIBI			Batch #:					Proposal #:		
Sample ID Sampled 3-1 9506 3-2 9-3 9-4 9-5 9-5 9-6 9-7 9-9	Sample Time Type Container Type G Vo AS X G VO	(5109W) lessel (W6015)	TPH as Molor Oil (M8015). TPH Gos/BIEX/MIBE (92609)	5 Owgenates/PH Gas/Bitx (8250B) 7 Owgenates/PH Gas/Bitx (8250B) 5 Owgenates (8260B)	Lead Scov. (1.2 DCA & 1,2 EDB (8260B) EPA 8260 [Full List] Halogenaled VOCs (8260B)	X Total Disselved Solids Laboratory ID #	Preservative	Comments	5626 955 Lotal # of containers	
Relinquished by: (signature) Date / T Relinquished by: (signature) Date / T	ime Received by: (a)gnatuline)	Pate	e/ime	- }	of Custody sea	AN/N/YGK	58 2°c	STD. YAT	4	
Relinquished by: (signature) Date / T		Date	le / Time		ived good con round time:	dition/cold	[2 c1	TO	· .]	